



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

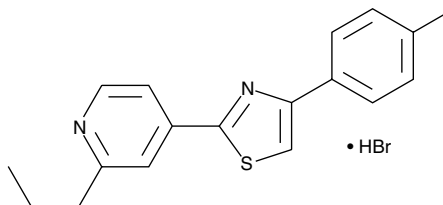
# Product Information



## Fatostatin (hydrobromide)

Item No. 13562

**CAS Registry No.:** 298197-04-3  
**Formal Name:** 4-[4-(4-methylphenyl)-2-thiazolyl]-2-propyl-pyridine, hydrobromide  
**Synonym:** 125B11  
**MF:** C<sub>18</sub>H<sub>18</sub>N<sub>2</sub>S • HBr  
**FW:** 375.3  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 257, 336 nm



### Laboratory Procedures

For long term storage, we suggest that fatostatin (hydrobromide) be stored as supplied at -20°C. It should be stable for at least two years.

Fatostatin (hydrobromide) is supplied as a crystalline solid. A stock solution may be made by dissolving the fatostatin (hydrobromide) in the solvent of choice. Fatostatin (hydrobromide) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of fatostatin (hydrobromide) in these solvents is approximately 0.1, 1.2, and 1 mg/ml, respectively.

Fatostatin (hydrobromide) is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Sterol regulatory element binding proteins (SREBPs) are transcription factors that have pivotal roles in lipogenesis and fat metabolism.<sup>1</sup> The activation of SREBPs requires escort to the Golgi by SREBP cleavage-activating protein (SCAP) followed by proteolytic release of SREBP from the Golgi.<sup>2</sup> Fatostatin is an inhibitor of SREBP activation, preventing SCAP-mediated escort of either SREBP-1 or SREBP-2 to the Golgi (IC<sub>50</sub> = 5.6 μM).<sup>3,4</sup> This blocks constitutive SREBP-mediated gene expression in the human prostate cancer cell line DU145.<sup>3</sup> Fatostatin prevents insulin-induced adipogenesis of 3T3-L1 cells as well as growth induced by insulin-like growth factor 1 in DU145 cells (IC<sub>50</sub> = 0.1 μM).<sup>5</sup> Through its actions on SCAP/SREBP-1, it inhibits high glucose-induced upregulation of TGF-β in primary rat mesangial cells.<sup>6</sup> This compound also alters lipid metabolism *in vivo*, reducing hepatic fat accumulation in *ob/ob* mice.<sup>3</sup>

### References

1. Horton, J.D., Goldstein, J.L., and Brown, M.S. *J. Clin. Invest.* **109**, 1125-1131 (2002).
2. Raghov, R., Yellaturu, C., Deng, X., *et al. Trends Endocrinol. Metab.* **19(2)**, 65-73 (2008).
3. Kamisuki, S., Mao, Q., Abu-Elheiga, L., *et al. Chem. Biol.* **16**, 882-892 (2009).
4. Kamisuki, S., Shirakawa, T., Kugimiya, A., *et al. J. Med. Chem.* **54(13)**, 4923-4927 (2011).
5. Choi, Y., Kawazoe, Y., Murakami, K., *et al. J. Biol. Chem.* **278(9)**, 7320-7324 (2003).
6. Uttarwar, L., Gao, B., Ingram, A.J., *et al. Am. J. Physiol. Renal Physiol.* **302(3)**, F329-F341 (2012).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/13562](http://www.caymanchem.com/catalog/13562)

### Cayman Chemical

**Mailing address**  
1180 E. Ellsworth Road  
Ann Arbor, MI  
48108 USA

**Phone**  
(800) 364-9897  
(734) 971-3335

**Fax**  
(734) 971-3640

**E-Mail**  
[custserv@caymanchem.com](mailto:custserv@caymanchem.com)

**Web**  
[www.caymanchem.com](http://www.caymanchem.com)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer's exclusive remedy and Cayman's sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman's option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

Copyright Cayman Chemical Company, 12/10/2013